

<b>Exploring the Extreme</b>			
<b>2005 Mathematics</b>			
<b>Core Curriculum</b>			
<b>New York Mathematics</b>			
<b>Grade K</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	NY	MA.K.K.CM.1	Understand how to organize their thought processes with teacher guidance
Finding the Center of Gravity Using Rulers	NY	MA.K.K.CM.2	Share mathematical ideas through the manipulation of objects, drawings, pictures, and verbal explanations
Finding the Center of Gravity Using Rulers	NY	MA.K.K.S.1	Gather data in response to questions posed by the teacher and students
<b>Exploring the Extreme</b>			
<b>2005 Mathematics</b>			
<b>Core Curriculum</b>			
<b>New York Mathematics</b>			
<b>Grade 1</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	NY	MA.1.1.CM.1	Understand how to organize their thought processes with teacher guidance
Finding the Center of Gravity Using Rulers	NY	MA.1.1.CM.2	Verbally support their reasoning and answer
<b>Exploring the Extreme</b>			
<b>2005 Mathematics</b>			
<b>Core Curriculum</b>			
<b>New York Mathematics</b>			
<b>Grade 2</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	NY	MA.2.2.CM.1	Understand how to organize their thought processes
Finding the Center of Gravity Using Rulers	NY	MA.2.2.CM.2	Verbally support their reasoning and answer
<b>Exploring the Extreme</b>			
<b>2005 Mathematics</b>			
<b>Core Curriculum</b>			
<b>New York Mathematics</b>			
<b>Grade 3</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	NY	MA.3.3.CM.1	Understand and explain how to organize their thought process

Finding the Center of Gravity Using Rulers	NY	MA.3.3.CM.2	Verbally explain their rationale for strategy selection
Finding the Center of Gravity Using Rulers	NY	MA.3.3.CM.6	Answer clarifying questions from others
Finding the Center of Gravity Using Plumb Lines	NY	MA.3.3.CM.1	Understand and explain how to organize their thought process
Finding the Center of Gravity Using Plumb Lines	NY	MA.3.3.CM.2	Verbally explain their rationale for strategy selection
Changing the Center of Gravity Using Moment Arms	NY	MA.3.3.CM.1	Understand and explain how to organize their thought process
Changing the Center of Gravity Using Moment Arms	NY	MA.3.3.CM.5	Share organized mathematical ideas through the manipulation of objects, drawings, pictures, charts, graphs, tables, diagrams, models, symbols, and expressions in written and verbal form
<b>Exploring the Extreme</b>			
<b>2005 Mathematics</b>			
<b>Core Curriculum</b>			
<b>New York Mathematics</b>			
<b>Grade 4</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	NY	MA.4.4.CM.1	Understand and explain how to organize their thought process
Finding the Center of Gravity Using Rulers	NY	MA.4.4.CM.2	Verbally explain their rationale for strategy selection
Finding the Center of Gravity Using Plumb Lines	NY	MA.4.4.RP.7	Discuss, listen, and make comments that support or reject claims made by other students
Finding the Center of Gravity Using Plumb Lines	NY	MA.4.4.CM.1	Understand and explain how to organize their thought process
Changing the Center of Gravity Using Moment Arms	NY	MA.4.4.RP.7	Discuss, listen, and make comments that support or reject claims made by other students
Changing the Center of Gravity Using Moment Arms	NY	MA.4.4.CM.1	Understand and explain how to organize their thought process
<b>Exploring the Extreme</b>			
<b>2005 Mathematics</b>			
<b>Core Curriculum</b>			
<b>New York Mathematics</b>			
<b>Grade 5</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	

Jet Propulsion	NY	MA.5.5.CM.3	Organize and accurately label work
Jet Propulsion	NY	MA.5.5.CM.5	Answer clarifying questions from others
Jet Propulsion	NY	MA.5.5.CM.7	Raise questions that elicit, extend, or challenge others' thinking
Vectoring	NY	MA.5.5.CM.1	Provide an organized thought process that is correct, complete, coherent, and clear
Vectoring	NY	MA.5.5.CM.5	Answer clarifying questions from others
Center of Gravity, Pitch, Yaw	NY	MA.5.5.N.11	Understand that percent means part of 100, and write percents as fractions and decimals
Center of Gravity, Pitch, Yaw	NY	MA.5.5.M.6	Determine the tool and technique to measure with an appropriate level of precision: lengths and angles
<b>Exploring the Extreme</b>			
<b>2005 Mathematics</b>			
<b>Core Curriculum</b>			
<b>New York Mathematics</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Jet Propulsion	NY	MA.6.6.CM.1	Provide an organized thought process that is correct, complete, coherent, and clear
Jet Propulsion	NY	MA.6.6.CM.5	Answer clarifying questions from others
Vectoring	NY	MA.6.6.CM.1	Provide an organized thought process that is correct, complete, coherent, and clear
Vectoring	NY	MA.6.6.S.8	Justify predictions made from data
<b>Exploring the Extreme</b>			
<b>2005 Mathematics</b>			
<b>Core Curriculum</b>			
<b>New York Mathematics</b>			
<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Jet Propulsion	NY	MA.7.7.PS.15	Choose methods for obtaining required information
Jet Propulsion	NY	MA.7.7.CM.5	Answer clarifying questions from others
Vectoring	NY	MA.7.7.RP.5	Develop, verify, and explain an argument, using appropriate mathematical ideas and language
Vectoring	NY	MA.7.7.CM.1	Provide a correct, complete, coherent, and clear rationale for thought process used in problem solving
Vectoring	NY	MA.7.7.CM.5	Answer clarifying questions from others
Fuel Efficiency	NY	MA.7.7.CM.4	Share organized mathematical ideas through the manipulation of objects, numerical tables, drawings, pictures, charts, graphs, tables, diagrams, models and symbols in written and verbal form
Fuel Efficiency	NY	MA.7.7.S.6	Read and interpret data represented graphically (pictograph, bar graph, histogram, line graph, double line/bar graphs or circle graph)

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<b>2005 Mathematics</b>			
<b>Core Curriculum</b>			
<b>New York Mathematics</b>			
<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Jet Propulsion	NY	MA.8.8.CM.3	Organize and accurately label work
Jet Propulsion	NY	MA.8.8.CM.5	Answer clarifying questions from others
Vectoring	NY	MA.8.8.CM.1	Provide a correct, complete, coherent, and clear rationale for thought process used in problem solving
Vectoring	NY	MA.8.8.CM.5	Answer clarifying questions from others
Fuel Efficiency	NY	MA.8.8.CM.4	Share organized mathematical ideas through the manipulation of objects, numerical tables, drawings, pictures, charts, graphs, tables, diagrams, models and symbols in written and verbal form